



# ENTEK



## HR<sup>3</sup> 133mm Extruder

Masterbatch compounding; 1250 to 2500 HP;  
300 or 600 RPM

### Screws

|  |                          |
|--|--------------------------|
| Diameter                               | 133mm                    |
| Rotation                               | Co-Rotating              |
| Length                                 | 28-48 L/D                |
| Screw Center Distance (mm)             | 110                      |
| Screw Do/Di Ratio                      | 1.55                     |
| Flight Depth (mm)                      | 23.6                     |
| Free Area, 2-Flight (cm <sup>2</sup> ) | 101.1                    |
| Shafts                                 | 24 Tooth Involute Spline |

### Drive System

|                           |                              |
|---------------------------|------------------------------|
| Std. Gearbox Ratios       | 1.75 / 2.92 / 3.8 / 5.8      |
| Screw Speeds              | 600 / 300 rpm                |
| Motor @ 1750 rpm          | 2000 / 1000 hp               |
| Motor Equivalent in Watts | 2.98 / 1.86 / 1.49 / 0.93 MW |
| Voltage Options           | 380 / 415 / 460 / 575 Volt   |
| Standard Motor Controller | AC                           |

### Barrels

|                         |                         |                |
|-------------------------|-------------------------|----------------|
| Form                    | Square, Flanged         |                |
| Length                  | 510 mm                  |                |
| Cooling                 | Internal Liquid Cooling |                |
| Open Barrel Heat Zone   | 18.8 kW Aluminum        | 24.8 kW Bronze |
| Closed Barrel Heat Zone | 22.5 kW Aluminum        | 34.5 kW Bronze |

### Controls

|                 |   |
|-----------------|---|
| Controller      | Ethernet PLC with Color Computer Interface  |
| Heat/Cool Zones | Up to 16 Standard (additional upon request) |

### Size & Utilities

|   |   |
|---|---|
| Installed Cooling Capacity (gearbox and barrel) | Consult ENTEK Engineering for Specific Applications |
| Typical Cooling                                 | Consult ENTEK Engineering for Specific Applications |
| Est. Power Requirements*                        | Consult ENTEK Engineering for Specific Applications |
| Centerline Height                               | 1345 mm [53 in]                                     |
| Length, 48D                                     | 11785 mm [464 in]                                   |
| Width   | 2185 mm [86 in]                                     |
| Height (top of motor)                           | 2030 mm [80 in]                                     |
| Weight (approx.)                                | 31000 kg [70000 lb]                                 |

\* - Standard Machine Configuration: 1 Feed Barrel, 9 Solid Barrels (6 Aluminum, 3 Bronze/Cast Iron), 1 Vent Barrel, Gear Box Lube 40mm and Up, Barrel Cooling Pump, Main Motor Blowers 400 hp and Up

